

## WEST Search History

DATE: Tuesday, July 22, 2003

**Set Name Query**  
side by side

**Hit Count Set Name**  
/ result set

*DB=USPT,PGPB; PLUR=YES; OP=ADJ*

L13	L12 and l7	1	L13
L12	L11 and lysr3	1	L12
L11	L10 and (l amino acid)	10	L11
L10	L9 and (corynebacteria or corynebacteria glutamicum)	21	L10
L9	LysR	72	L9
L8	LysR3	1	L8
L7	L6 or l5 or l4 or l3 or l2 or l1	31164	L7
L6	((((536/23.1)!.CCLS.) )	9121	L6
L5	((((530/350)!.CCLS.) )	10950	L5
L4	((((435/320.1)!.CCLS.) )	18595	L4
L3	((((435/252.32)!.CCLS.) )	124	L3
L2	((((435/252.3 )!.CCLS. ) )	7123	L2
L1	((435/106 )!.CCLS. )	403	L1

END OF SEARCH HISTORY

**WEST****End of Result Set**

Generate Collection

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L13: Entry 1 of 1

File: PGPB

May 29, 2003

PGPUB-DOCUMENT-NUMBER: 20030100099  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030100099 A1

TITLE: Nucleotide sequences which code for the lysR3 gene

PUBLICATION-DATE: May 29, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Moeckel, Bettina	Duesseldorf		DE	
Kreutzer, Caroline	Melle		DE	

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	COUNTRY	TYPE CODE
DEGUSSA AG	Hanau-Wolfgang		DE	03

APPL-NO: 09/ 867537 [PALM]  
DATE FILED: December 11, 2001

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
DE	100 39 049.8	2000DE-100 39 049.8	August 10, 2000

INT-CL: [07] C12 N 1/20

US-CL-PUBLISHED: 435/252.3

US-CL-CURRENT: 435/252.3

REPRESENTATIVE-FIGURES: NONE

## ABSTRACT:

The present invention relates to polynucleotides corresponding to the lysR3 gene and which encode a LysR3 transcriptional regulator, methods of producing L-amino acids, and methods of screening for polynucleotides which encode proteins having LysR3 transcriptional regulator activity.

**WEST**[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 10 of 10 returned.**☐ 1. Document ID: US 20030100099 A1

L11: Entry 1 of 10

File: PGPB

May 29, 2003

PGPUB-DOCUMENT-NUMBER: 20030100099

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030100099 A1

TITLE: Nucleotide sequences which code for the lysR3 gene

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc
Image												

☐ 2. Document ID: US 20030049804 A1

L11: Entry 2 of 10

File: PGPB

Mar 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030049804

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030049804 A1

TITLE: Corynebacterium glutamicum genes encoding metabolic pathway proteins

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc
Image												

☐ 3. Document ID: US 20020197605 A1

L11: Entry 3 of 10

File: PGPB

Dec 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020197605

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020197605 A1

TITLE: Novel Polynucleotides

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc
Image												

☐ 4. Document ID: US 20020081674 A1

L11: Entry 4 of 10

File: PGPB

Jun 27, 2002

PGPUB-DOCUMENT-NUMBER: 20020081674

PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020081674 A1

TITLE: Nucleotide sequences for encoding of the lysR2-Gene

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc.
Image												

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☐ 5. Document ID: US 20020064839 A1

L11: Entry 5 of 10

File: PGPB

May 30, 2002

PGPUB-DOCUMENT-NUMBER: 20020064839  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020064839 A1

TITLE: Nucleotide sequences which code for the oxyR gene

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc.
Image												

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☐ 6. Document ID: US 6583275 B1

L11: Entry 6 of 10

File: USPT

Jun 24, 2003

US-PAT-NO: 6583275  
DOCUMENT-IDENTIFIER: US 6583275 B1

TITLE: Nucleic acid sequences and expression system relating to Enterococcus faecium for diagnostics and therapeutics

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc.
Image												

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☐ 7. Document ID: US 6562958 B1

L11: Entry 7 of 10

File: USPT

May 13, 2003

US-PAT-NO: 6562958  
DOCUMENT-IDENTIFIER: US 6562958 B1

TITLE: Nucleic acid and amino acid sequences relating to Acinetobacter baumannii for diagnostics and therapeutics

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc.
Image											

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☐ 8. Document ID: US 6551795 B1

L11: Entry 8 of 10

File: USPT

Apr 22, 2003

US-PAT-NO: 6551795

DOCUMENT-IDENTIFIER: US 6551795 B1

TITLE: Nucleic acid and amino acid sequences relating to pseudomonas aeruginosa for diagnostics and therapeutics

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KVMC	Draw Desc
Image											

☐ 9. Document ID: US 6117643 A

L11: Entry 9 of 10

File: USPT

Sep 12, 2000

US-PAT-NO: 6117643

DOCUMENT-IDENTIFIER: US 6117643 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Bioluminescent bioreporter integrated circuit

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KVMC	Draw Desc
Image											

☐ 10. Document ID: US 5773691 A

L11: Entry 10 of 10

File: USPT

Jun 30, 1998

US-PAT-NO: 5773691

DOCUMENT-IDENTIFIER: US 5773691 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Chimeric genes and methods for increasing the lysine and threonine content of the seeds of plants

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KVMC	Draw Desc
Image											

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Terms	Documents
L10 and (1 amino acid)	10

**Display Format:** [-----](#) [Change Format](#)[Previous Page](#)[Next Page](#)

=> d his'

(FILE 'HOME' ENTERED AT 13:55:21 ON 22 JUL 2003)

FILE 'HCAPLUS' ENTERED AT 13:55:46 ON 22 JUL 2003

L1	3 S	LYSR3	
	E	LYSR3/CT	
	E	LYSR	
	E	LYSR/CT	
L2	2 S	L1 (L)	(CORYNEBACTERIA OR CORYNEBACTERIA GLUTAMICUM OR (BACTE
L3	1 S	L2 (L)	(DNA OR CDNA OR NUCLEIC ACID OR POLYNUCLEOTIDE)

=>

L1 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2003:377055 HCAPLUS

DOCUMENT NUMBER: 138:380500

TITLE: Protein and nucleic acid sequence of aspartate kinase gene lysC and production of chemical compounds by fermentation from Coryneform bacteria

INVENTOR(S): Bathe, Brigitte; Kreutzer, Caroline; Moeckel, Bettina; Thierbach, Georg

PATENT ASSIGNEE(S): Degussa AG, Germany

SOURCE: PCT Int. Appl., 127 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003040373	A2	20030515	WO 2002-EP8464	20020730
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.: US 2001-309878P P 20010806

AB The invention relates to coryneform bacteria which have, in addn. to at least one copy, present at the natural site (locus), of an open reading frame (ORF), gene or allele which codes for the synthesis of a protein or an RNA. In each case a second, optionally third or fourth copy of this open reading frame (ORF), gene or allele at in each case a second, optionally third or fourth site in a form integrated into the chromosome and processes for the prepn. of chem. compds. by fermn. of these bacteria. The nucleotide and protein sequence of Corynebacterium aspartate kinase gene lysC allele is presented. The invention provides a process for the prepn. of L-lysine by fermn.

L1 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2003:133441 HCAPLUS

DOCUMENT NUMBER: 138:182049

TITLE: Enhanced L-lysine production from Corynebacterium glutamicum strains bearing two copies of lysCFBR gene  
INVENTOR(S): Bathe, Brigitte; Kreutzer, Caroline; Moeckel, Bettina; Thierbach, Georg

PATENT ASSIGNEE(S): Degussa AG, Germany

SOURCE: PCT Int. Appl., 109 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003014330	A2	20030220	WO 2002-EP8465	20020730
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,			

PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,  
NE, SN, TD, TG

PRIORITY APPLN. INFO.:

US 2001-309877P P 20010806

AB The invention relates to coryneform bacteria, which instead of the singular copy of an open reading frame (ORF), gene or allele naturally present at the particular desired site (locus), have at least two copies of the open reading frame (ORF), gene or allele in question, preferably in tandem arrangement, and optionally at least a third copy of the open reading frame (ORF), gene or allele in question at a further gene site, and processes for the prepn. of chem. compds. by fermn. of these bacteria. Thus, *Corynebacterium glutamicum* strain DSM 139921 lysCFBR::lysCFBR was prepd. as follows: A mutant lysC gene, which encodes a feedback resistant aspartate kinase, was isolated from chromosomal DNA of the mutant *Corynebacterium glutamicum* strain DSM 139921. The isolated lysCFBR gene was then incorporated into plasmid pK18mobsacB2xlysCSma2/1. This plasmid was then employed to integrate the lysCFBR gene into the *Corynebacterium glutamicum* chromosome in a tandem arrangement with its allele. *Corynebacterium glutamicum* strain DSM 139921 lysCFBR::lysCFBR was then shown to produce 21.6 g/L of L-lysine as compared to 18.9 for the DSM 13992 strain.

L1 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2002:123219 HCAPLUS

DOCUMENT NUMBER: 136:182549

TITLE: Sequences of *Corynebacterium glutamicum* gene **lysR3** encoding transcription regulator and its use in increasing yields of L-lysine and L-valine in fermentation

INVENTOR(S): Moeckel, Bettina; Kreutzer, Caroline

PATENT ASSIGNEE(S): Degussa A.-G., Germany

SOURCE: PCT Int. Appl., 37 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002012505	A1	20020214	WO 2001-EP7765	20010706
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
DE 10039049	A1	20020221	DE 2000-10039049	20000810
US 2003100099	A1	20030529	US 2001-867537	20010531
AU 2001076385	A5	20020218	AU 2001-76385	20010706
EP 1307562	A1	20030507	EP 2001-954016	20010706
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			

PRIORITY APPLN. INFO.:

DE 2000-10039049 A 20000810

US 2001-867537 A 20010531

WO 2001-EP7765 W 20010706

AB The invention provides sequences of *Corynebacterium glutamicum* gene **lysR3** that encodes a novel transcription regulator, and its uses in increasing the efficiency of fermn. of L-lysine and L-valine in coryneform bacteria by attenuation of the **lysR3** gene. The gene was identified by querying a *C. glutamicum* sequence database for homologs of known **lysR3** genes.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT



=> s lysr3

L1 2 LYSR3

=> d

L1 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 398593-34-5 REGISTRY  
CN **Transport protein (Corynebacterium glutamicum strain ATCC\_13032 gene lysR3) (9CI) (CA INDEX NAME)**

OTHER NAMES:

CN 2: PN: WO0212505 SEQID: 2 claimed protein  
FS PROTEIN SEQUENCE  
MF Unspecified  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*  
1 REFERENCES IN FILE CA (1947 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1947 TO DATE)

=> d 2

L1 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 398593-33-4 REGISTRY  
CN **DNA (Corynebacterium glutamicum strain ATCC\_13032 gene lysR3) (9CI) (CA INDEX NAME)**

OTHER NAMES:

CN 1: PN: WO0212505 SEQID: 1 claimed DNA  
FS NUCLEIC ACID SEQUENCE  
MF Unspecified  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*  
1 REFERENCES IN FILE CA (1947 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1947 TO DATE)

=> d iall

L2 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2002:123219 HCAPLUS  
DOCUMENT NUMBER: 136:182549  
TITLE: Sequences of Corynebacterium glutamicum gene lysR3  
encoding transcription regulator and its use in  
increasing yields of L-lysine and L-valine in  
fermentation

INVENTOR(S): Moeckel, Bettina; Kreutzer, Caroline

PATENT ASSIGNEE(S): Degussa A.-G., Germany

SOURCE: PCT Int. Appl., 37 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

INT. PATENT CLASSIF.:

MAIN: C12N015-31

SECONDARY: C12P013-08; C12N001-21; C07K014-34; C12P013-08;  
C12R001-15

CLASSIFICATION: 16-2 (Fermentation and Bioindustrial Chemistry)  
Section cross-reference(s): 3, 6, 10

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002012505	A1	20020214	WO 2001-EP7765	20010706
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
DE 10039049	A1	20020221	DE 2000-10039049	20000810
US 2003100099	A1	20030529	US 2001-867537	20010531
AU 2001076385	A5	20020218	AU 2001-76385	20010706
EP 1307562	A1	20030507	EP 2001-954016	20010706
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			

PRIORITY APPLN. INFO.: DE 2000-10039049 A 20000810  
US 2001-867537 A 20010531  
WO 2001-EP7765 W 20010706

ABSTRACT:

The invention provides sequences of Corynebacterium glutamicum gene lysR3 that encodes a novel transcription regulator, and its uses in increasing the efficiency of fermn. of L-lysine and L-valine in coryneform bacteria by attenuation of the lysR3 gene. The gene was identified by querying a C. glutamicum sequence database for homologs of known lysR3 genes.

SUPPL. TERM: lysR3 gene transcription regulator Corynebacterium DNA  
sequence; lysine valine fermn Corynebacterium lysR3 gene

INDEX TERM: Corynebacterium glutamicum  
(ATCC13032; sequences of Corynebacterium glutamicum gene  
lysR3 encoding transcription regulator and its use in  
increasing yields of L-lysine and L-valine in fermn.)

INDEX TERM: Genetic vectors  
(contg. gene lysR3; sequences of Corynebacterium  
glutamicum gene lysR3 encoding transcription regulator  
and its use in increasing yields of L-lysine and L-valine  
in fermn.)

INDEX TERM: Gene, microbial  
ROLE: BUU (Biological use, unclassified); PRP (Properties);  
BIOL (Biological study); USES (Uses)  
(dap; sequences of Corynebacterium glutamicum gene lysR3  
encoding transcription regulator and its use in  
increasing yields of L-lysine and L-valine in fermn.)

INDEX TERM: DNA  
RNA  
cDNA  
ROLE: BSU (Biological study, unclassified); BIOL (Biological study)  
(encoding transcription regulator; sequences of Corynebacterium glutamicum gene lysR3 encoding transcription regulator and its use in increasing yields of L-lysine and L-valine in fermn.)

INDEX TERM: Gene, microbial  
ROLE: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)  
(eno; sequences of Corynebacterium glutamicum gene lysR3 encoding transcription regulator and its use in increasing yields of L-lysine and L-valine in fermn.)

INDEX TERM: Amino acids, preparation  
ROLE: BMF (Bioindustrial manufacture); BIOL (Biological study); PREP (Preparation)  
(fermn. of; sequences of Corynebacterium glutamicum gene lysR3 encoding transcription regulator and its use in increasing yields of L-lysine and L-valine in fermn.)

INDEX TERM: Nucleic acid hybridization  
(for detection of lysR3 gene; sequences of Corynebacterium glutamicum gene lysR3 encoding transcription regulator and its use in increasing yields of L-lysine and L-valine in fermn.)

INDEX TERM: Primers (nucleic acid)  
Probes (nucleic acid)  
ROLE: ARG (Analytical reagent use); BUU (Biological use, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
(for detection of lysR3 gene; sequences of Corynebacterium glutamicum gene lysR3 encoding transcription regulator and its use in increasing yields of L-lysine and L-valine in fermn.)

INDEX TERM: Gene, microbial  
ROLE: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)  
(ilvBN; sequences of Corynebacterium glutamicum gene lysR3 encoding transcription regulator and its use in increasing yields of L-lysine and L-valine in fermn.)

INDEX TERM: Gene, microbial  
ROLE: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)  
(ilvD; sequences of Corynebacterium glutamicum gene lysR3 encoding transcription regulator and its use in increasing yields of L-lysine and L-valine in fermn.)

INDEX TERM: Gene, microbial  
ROLE: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)  
(lyse; sequences of Corynebacterium glutamicum gene lysR3 encoding transcription regulator and its use in increasing yields of L-lysine and L-valine in fermn.)

INDEX TERM: Transcription factors  
ROLE: BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(lysR3; sequences of Corynebacterium glutamicum gene lysR3 encoding transcription regulator and its use in increasing yields of L-lysine and L-valine in fermn.)

INDEX TERM: Gene, microbial  
ROLE: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)  
(lysR3; sequences of Corynebacterium glutamicum gene lysR3 encoding transcription regulator and its use in increasing yields of L-lysine and L-valine in fermn.)

INDEX TERM: Transport proteins  
ROLE: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(lysine-transporting; sequences of Corynebacterium glutamicum gene lysR3 encoding transcription regulator and its use in increasing yields of L-lysine and L-valine in fermn.)

INDEX TERM: Gene, microbial  
 ROLE: BUU (Biological use, unclassified); PRP (Properties);  
 BIOL (Biological study); USES (Uses)  
 (mqo; sequences of Corynebacterium glutamicum gene lysR3 encoding transcription regulator and its use in increasing yields of L-lysine and L-valine in fermn.)

INDEX TERM: Genetic engineering  
 (of L-lysine manuf. with transgenic Corynebacteria; sequences of Corynebacterium glutamicum gene lysR3 encoding transcription regulator and its use in increasing yields of L-lysine and L-valine in fermn.)

INDEX TERM: Fermentation  
 (of L-lysine, with transgenic Corynebacteria; sequences of Corynebacterium glutamicum gene lysR3 encoding transcription regulator and its use in increasing yields of L-lysine and L-valine in fermn.)

INDEX TERM: Plasmid vectors  
 (pCR2.1lysR3int, for expression of lysR3 gene of Corynebacterium; sequences of Corynebacterium glutamicum gene lysR3 encoding transcription regulator and its use in increasing yields of L-lysine and L-valine in fermn.)

INDEX TERM: Gene, microbial  
 ROLE: BUU (Biological use, unclassified); PRP (Properties);  
 BIOL (Biological study); USES (Uses)  
 (pck; sequences of Corynebacterium glutamicum gene lysR3 encoding transcription regulator and its use in increasing yields of L-lysine and L-valine in fermn.)

INDEX TERM: Gene, microbial  
 ROLE: BUU (Biological use, unclassified); PRP (Properties);  
 BIOL (Biological study); USES (Uses)  
 (pgi; sequences of Corynebacterium glutamicum gene lysR3 encoding transcription regulator and its use in increasing yields of L-lysine and L-valine in fermn.)

INDEX TERM: Gene, microbial  
 ROLE: BUU (Biological use, unclassified); PRP (Properties);  
 BIOL (Biological study); USES (Uses)  
 (poxB; sequences of Corynebacterium glutamicum gene lysR3 encoding transcription regulator and its use in increasing yields of L-lysine and L-valine in fermn.)

INDEX TERM: DNA sequences  
 Protein sequences  
 (sequences of Corynebacterium glutamicum gene lysR3 encoding transcription regulator and its use in increasing yields of L-lysine and L-valine in fermn.)

INDEX TERM: Corynebacterium lactofermentum  
 Coryneform bacteria  
 (with attenuated gene lysR3 expression; sequences of Corynebacterium glutamicum gene lysR3 encoding transcription regulator and its use in increasing yields of L-lysine and L-valine in fermn.)

INDEX TERM: Gene, microbial  
 ROLE: BUU (Biological use, unclassified); PRP (Properties);  
 BIOL (Biological study); USES (Uses)  
 (zwf; sequences of Corynebacterium glutamicum gene lysR3 encoding transcription regulator and its use in increasing yields of L-lysine and L-valine in fermn.)

INDEX TERM: **398593-34-5P**  
 ROLE: BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study);  
 PREP (Preparation); USES (Uses)  
 (amino acid sequence; sequences of Corynebacterium glutamicum gene lysR3 encoding transcription regulator and its use in increasing yields of L-lysine and L-valine in fermn.)

INDEX TERM: **398593-33-4**

ROLE: BUU (Biological use, unclassified); PRP (Properties);  
BIOL (Biological study); USES (Uses)  
(nucleotide sequence; sequences of Corynebacterium  
glutamicum gene lysR3 encoding transcription regulator  
and its use in increasing yields of L-lysine and L-valine  
in fermn.)

INDEX TERM: 56-87-1P, L-Lysine, preparation

ROLE: BMF (Bioindustrial manufacture); BIOL (Biological  
study); PREP (Preparation)

(sequences of Corynebacterium glutamicum gene lysR3  
encoding transcription regulator and its use in  
increasing yields of L-lysine and L-valine in fermn.)

INDEX TERM:

72-18-4, Valine, biological studies 9001-41-6,  
Glucose-6-phosphate isomerase 9001-96-1, Pyruvate oxidase  
9013-12-1, Phosphoenol pyruvate carboxykinase 9014-08-8,  
Enolase 9014-19-1, Pyruvate carboxylase 9024-32-2,  
Dihydroxy acid dehydratase 9027-45-6, Acetohydroxy acid  
synthase 9055-59-8, Dihyrodipicolinate synthase  
71822-24-7, Malate:quinone oxidoreductase

ROLE: BUU (Biological use, unclassified); PRP (Properties);  
BIOL (Biological study); USES (Uses)

(sequences of Corynebacterium glutamicum gene lysR3  
encoding transcription regulator and its use in  
increasing yields of L-lysine and L-valine in fermn.)

INDEX TERM:

398593-49-2, 3: PN: WO0212505 SEQID: 3 unclaimed DNA

ROLE: PRP (Properties)

(unclaimed nucleotide sequence; sequences of  
Corynebacterium glutamicum gene lysR3 encoding  
transcription regulator and its use in increasing yields  
of L-lysine and L-valine in fermn.)

INDEX TERM:

398593-50-5 398593-51-6

ROLE: PRP (Properties)

(unclaimed sequence; sequences of Corynebacterium  
glutamicum gene lysR3 encoding transcription regulator  
and its use in increasing yields of L-lysine and L-valine  
in fermn.)

REFERENCE COUNT:

5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS  
RECORD.

REFERENCE(S):

- (1) Basf Aktiengesellschaft; WO 0100842 A 2001 HCAPLUS
- (2) Eikmanns; ANTONIE VAN LEEUWENHOEK 1993, V46, P145
- (3) Kyowa Hakko Kogyo Co; EP 1108790 A 2001
- (4) Peters, W; WO 9918228 A 1999 HCAPLUS
- (5) Vrljic, M; MOLECULAR MICROBIOLOGY 1996, V22(5), P815  
HCAPLUS